

ELECTROSTATIC CHROMATGRAPHY DEVICE

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Abstract

PURPOSE:To analyze and capture molecules and particles by forming an electric field with electrodes arranged in a passage, supplying molecular solution of protein and the like or soil suspension of the particles of cells and the like from an inlet at a constant velocity and utilizing that a difference between required times up to a passage outlet produces in response to another difference between pieces of facility for drawing them to the electrode.

CONSTITUTION:Electrodes #1, 6 or #2, 7 are provided in a passage 5 formed between covers 2 for manufacturing a board 1 and the passage, and mixed solution of many kinds of protein is introduced at a constant velocity toward an outlet 4 from an inlet 3 as high frequency voltage is applied intermittently. Because dielectric migration power drawn to an electrode in response to kinds of protein is different, molecules difficult to be drawn immediately reach the outlet with flow, on the contrary other molecules easy to be drawn stay at an electrode part in the passage for a long time. In other words, at the outlet firstly the molecules difficult to electrically be drawn are obtained and next the other molecules easy to be drawn are gotten. As a result the analysis and capture of protein are possible. In the same principle the analysis and classification of particles are also possible.

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